

## DECLARATION - USA PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled SHALLOW TRENCH ISOLATION USING LOW DIELECTRIC CONSTANT INSULATOR; the specification of which is attached hereto;

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56;

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Klaus F. Schuegraf

Inventor's signature

Klaus F. Schuegraf

Date

10/19/95

Residence: 2000 White Pine Lane, Boise, ID 83706

Citizenship: United States

Post Office Address: same

Post Office Address: same

620 NEWPORT CENTER DR 16TH FLOOR KNOBBE, MARTENS, OLSON & BEAR NEWPORT BEACH, CA 92660 (714) 760-0404 FAX (714) 760-9502

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Klaus F. Schuegraf et al.	)
			)
App. No.	:	Unknown	)
			)
Filed	:	Herewith	)
			)
For	:	SHALLOW TRENCH ISOLATION	)
		USING LOW DIELECTRIC	)
		CONSTANT INSULATOR	)
			)
Examiner	:	Unknown	)

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ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents  
 Washington, D.C. 20231

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee. I have reviewed this Assignment, and to the best of the Assignee's knowledge and belief, the Assignee is the owner of the entire right, title and interest in the above-referenced application.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints Louis J. Knobbe, Registration No. 18,780; Don W. Martens, Registration No. 21,107; Gordon H. Olson, Registration No. 20,319; James B. Bear, Registration No. 25,221; Darrell L. Olson, Registration No. 28,247; William B. Bunker, Registration No. 29,365; William H. Nieman, Registration No. 30,201; Lowell Anderson, Registration No. 30,990; Arthur S. Rose, Registration No. 28,038; James F. Lesniak, Registration No. 25,240; Ned A. Israelsen, Registration No. 29,655; Drew S. Hamilton, Registration No. 29,801; Jerry T. Sewell, Registration No. 31,567; John B. Sganga, Jr., Registration No. 31,302; Edward A. Schlatter, Registration No. 32,297; Gerard von Hoffmann, Registration No. 33,043; Joseph R. Re, Registration No. 31,291; John M. Carson,

"09" 2222222222

App. No. : Unknown  
Filed : Herewith

Registration No. 34,303; Andrew H. Simpson, Registration No. 31,469; Daniel E. Altman, Registration No. 34,115; Anita M. Kirkpatrick, Registration No. 32,617; Ernest A. Beutler, Registration No. 19,901; Vito A. Canuso, Registration No. 35,471; William H. Shreve, Registration No. 35,678; Stephen C. Jensen, Registration No. 35,556; Steven J. Nataupsky, Registration No. 37,688; Michael Fedrick, Registration No. 36,799; Michael H. Trenholm, Registration No. 37,743; AnneMarie Kaiser, Registration No. 37,649; Edward J. Treska, Registration No. 37,744; Nancy Ways Vensko, Registration No. 36,298; Jonathan A. Barney, Registration No. 34,292; Ronald J. Schoenbaum, Registration No. 38,297; Richard C. Gilmore, Registration No. 37,335; John R. King, Registration No. 34,362; William S. Reimus, Registration No. 38,279; Stephen S. Korniczky, Registration No. 34,853; Frederick S. Berretta, Registration No. 38,004; Christopher A. Colvin, Registration No. 39,147; Yasuo Muramatsu, Registration No. 38,684; Raimond J. Salenieks, Registration No. 37,924; Renée E. Canuso, Registration No. 36,657; Guy L. Cumberbatch, Registration No. 36,114; Michael L. Fuller, Registration No. 36,516; and Christine M. Jones, Registration No. 35,182, Knobbe, Martens, Olson & Bear, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone (714) 760-0404, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please direct all communications relative to said application to the following correspondence address:

James B. Bear  
KNOBBE, MARTENS, OLSON & BEAR  
620 Newport Center Drive  
Sixteenth Floor  
Newport Beach, CA 92660  
Telephone: (714) 760-0404

MICRON TECHNOLOGY, INC.

Dated: Oct. 16, 1995

By: W. Bryan Farney *WBF*

Title: Vice President Legal Affairs &  
General Counsel

Address: 8000 S. Federal Way  
Boise, ID 83707

MICRON.009A  
GVH/JBB/ASA  
2816



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 07, 1996

PTAS

KNOBBE, MARTENS, OLSON & BEAR  
JAMES B. BEAR  
SIXTEENTH FLOOR  
620 NEWPORT CENTER DRIVE  
NEWPORT BEACH, CA 92660



\*100106088A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/24/1995

REEL/FRAME: 7746/0914  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
SCHUEGRAF, KLAUS F.

DOC DATE: 10/19/1995

ASSIGNOR:  
AHMAD, AFTAB

DOC DATE: 10/19/1995

ASSIGNEE:  
MICRON TECHNOLOGY, INC.  
8000 FEDERAL WAY  
BOISE, IDAHO 83707

SERIAL NUMBER: 08547620  
PATENT NUMBER:

FILING DATE: 10/24/1995  
ISSUE DATE:

LAWAN FLETCHER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DOCKETED ON:	APR 19 1996
SY:	none
ACTION:	
FILE DATE:	
FINAL OFFICE:	
ATTY:	GVH/JBB/ASA
ATTORNEY VERIFICATION OF DUE DATE AND FINAL DEADLINE	

12-18-1995

SHEET

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08/547620

TO THE ASSISTANT COMMISSIONER

and original documents or copy thereof.

100106088

Name of conveying party(ies): (If multiple assignors, list

and address of receiving party(ies):

Name: Micron Technology, Inc.

Internal Address:

Street Address: 8000 Federal Way

City: Boise State: ID ZIP: 83707

1. Klaus F. Schuegraf

2. Aftab Ahmad

Additional name(s) of conveying party(ies) attached?

( ) Yes (X) No

Additional name(s) of receiving party(ies) attached?

( ) Yes (X) No

3. Nature of conveyance:

4. Application number(s) or Patent number(s):

- (x) Assignment  
 ( ) Merger  
 ( ) Security Agreement  
 ( ) Change of Name  
 ( ) Other:

(x) Application(s) filed herewith Execution Date(s):  
October 19, 1995( ) Patent Application No.: /  
Filing Date:( ) Patent No.:  
Issue Date:Execution Date: (If multiple assignors, list execution dates in  
numerical order corresponding to numbers indicated in 1 above)  
October 19, 1995

Additional numbers attached? ( ) Yes (X) No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

7. Total fee (37 CFR 3.41): \$40

Name: James B. Bear

KNOBBE, MARTENS, OLSON &amp; BEAR

Internal Address: Sixteenth Floor

Street Address: 620 Newport Center Drive

City: Newport Beach State: CA ZIP: 92660

Attorney's Docket No.: MICRON.009A

(X) Enclosed

(X) Authorized to be charged to deposit account if any  
additional fees are required, or to credit any  
overpayment

8. Deposit account number: 11-1410

6. Total number of applications and patents involved: one

Please charge this account for any additional fees which may be  
required, or credit any overpayment to this account.

(Attach triplicate copy of this page if paying by deposit account.)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of  
the original document.

James B. Bear

Name of Person Signing

Signature

10/24/95

Date

25,221

Registration No.

66080 U.S. PTO



12/13/95

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents

Box Assignments

Washington, D.C. 20231

DLA-1347:vm  
102495

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270 MM 12/05/95 08547620

Application No.: Unknown  
Filing Date: Herewith

Client Code: MICRON.009A  
Page 1

ASSIGNMENT

WHEREAS, We, Klaus F. Schuegraf, a United States citizen, residing at 2000 White Pine Lane, Boise, ID 83706, Aftab Ahmad, a United States citizen, residing at 3426 S. Pimmet Place, Boise, ID 83706 have invented certain new and useful improvements in a SHALLOW TRENCH ISOLATION USING LOW DIELECTRIC CONSTANT INSULATOR for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, Micron Technology, Inc. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 8000 S. Federal Way, Boise, ID 83707, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) each to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 19th day of Oct, 1995

Klaus F. Schuegraf  
Klaus F. Schuegraf

STATE OF

ss.

COUNTY OF

On Oct 19, 1995, before me, Deanne Schildan, personally appeared Klaus F. Schuegraf personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Deanne Schildan  
Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 19 day of Oct., 1995

Aftab Ahmad

Aftab Ahmad

STATE OF

]] ss.  
]]

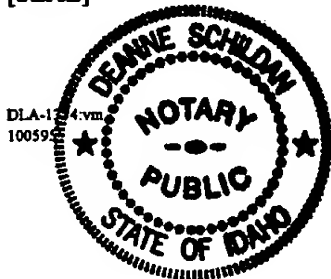
COUNTY OF

On Oct. 19, 1995, before me, Deanne Schildan personally appeared Aftab Ahmad personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

Deanne Schildan  
Signature



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